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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	99	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-02-03** **Date: 09-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Kutteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-02-03** **Date: 04-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-02-03** **Date: 09-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-02-03** **Date: 09-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-05-02-03 **Date: 08-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-02-03** **Date: 08-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-05-02-03 **Date: 08-03-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-03-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-03-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-05-02-03** **Date: 08-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-05-02-03 **Date: 17-03-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-03-23

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 13/03/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.49	100.52	1.122	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.50	100.51	1.118	4716	81.5	17.3	16.1	20.1

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-05-02-03** **Date: 17-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-23
Sample Type /Size	:	Precast Cover Slab (230mm thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	13/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.61	230.41	2.802	4730	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.75	230.55	2.811	4747	83.7	17.6	16.4	20.5
3	Cover Slab-3	77.35	230.63	2.813	4698	81.5	17.3	16.1	20.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-02-03** **Date: 08/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.20 X 149.70 X 151.56	22484	8.451	579.6	25.8	25.3
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.74 X 151.03 X 151.61	22615	8.105	588.1	26.0	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.35 X 149.93 X 149.27	22543	8.696	543.1	24.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-02-03 **Date: 29/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.67 X 151.92 X 149.43	22890	8.223	763.8	33.4	33.0
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.28 X 149.38 X 151.66	22300	8.390	725.1	32.5	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.39 X 150.09 X 149.09	22723	8.674	755.2	33.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-02-03**

Date: 08/04/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.77 X 150.68 X 149.36	22567	8.755	569.4	25.2	25.3
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.99 X 150.59 X 150.53	22889	8.597	597.2	26.1	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.66 X 151.37 X 149.91	22654	8.249	553.5	24.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-05-02-03** **Date: 29/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.16 X 151.76 X 150.18	22940	8.517	764.6	33.3	32.9
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.04 X 150.46 X 149.60	22425	8.154	719.1	32.1	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.73 X 150.63 X 149.98	22856	8.719	761.4	33.3	

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Date: 08/04/2023

Lab ID	:	CP-2023-05-02-03
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.64 X 150.98 X 151.06	22744	8.210	582.0	25.6	25.6
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.74 X 150.43 X 150.88	22827	8.858	611.7	26.8	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.02 X 151.12 X 151.71	22520	8.820	549.8	24.4	

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Format No: CP/TF/01

Date: 29/04/2023

Lab ID	:	CP-2023-05-02-03
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.26 X 151.19 X 149.84	22718	8.274	769.7	33.9	33.4
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.72 X 151.28 X 151.10	22953	8.802	751.8	32.8	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.50 X 150.26 X 149.35	22615	8.540	758.3	33.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-02-03** **Date: 08/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.60 X 151.30 X 150.23	22937	8.312	586.9	25.6	25.7
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.99 X 150.37 X 149.26	22854	8.759	611.8	26.8	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	150.34 X 151.84 X 151.35	22827	8.802	567.0	24.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/04/2023

Lab ID	:	**CP-2023-05-02-03**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	151.89 X 151.90 X 150.92	23072	8.275	771.7	33.4	33.1
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.20 X 150.62 X 149.85	22473	8.650	721.3	32.1	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.79 X 150.33 X 151.15	22517	8.136	761.7	33.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-02-03** **Date: 08/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)

Agency : Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.

Customer's Reference : BBMP/EE/BTP/WO/140/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.17 X 150.98 X 149.44	22822	8.111	579.6	25.4	25.6
2	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	151.66 X 151.39 X 151.54	22960	8.505	613.0	26.7	
3	Cement Concrete Pavement	M30	01/04/2023	08/04/2023	149.11 X 150.83 X 150.98	22491	8.810	556.7	24.8	

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Quality Manager

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Date: 29/04/2023

Lab ID	:	**CP-2023-05-02-03**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Doddabommsandra Old Village, Katteramma Temple Roads and Surrounding Areas in Ward No.13,(Doddabommasandra)
Agency	:	Sri. D A Ravindra, No.1265, HIG, Mother Dairy Road, Near Karnataka Bank, Yelahanka New Town, Bengaluru-64.
Customer's Reference	:	BBMP/EE/BTP/WO/140/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.96 X 149.73 X 151.82	22453	8.188	745.8	33.2	33.0
2	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	149.12 X 149.57 X 151.44	22305	8.723	726.7	32.6	
3	Cement Concrete Pavement	M30	01/04/2023	29/04/2023	150.85 X 149.51 X 149.41	22552	8.345	751.4	33.3	

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Quality Manager

AEE (NRD)

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